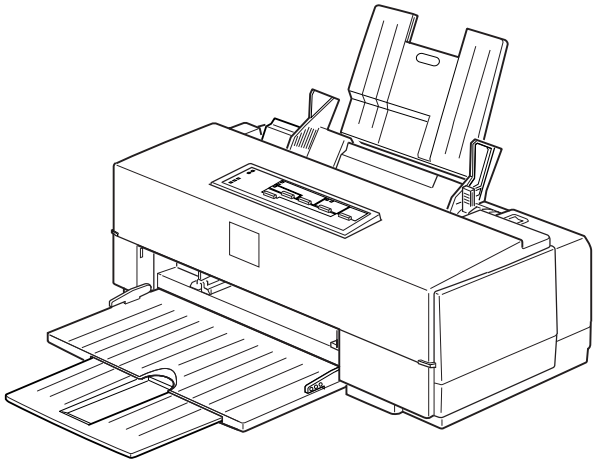


Printer Specifications

Printing

Printing method: On-demand ink jet

Nozzle configuration: 64 monochrome (black) nozzles
60 color (cyan, magenta, yellow) nozzles (20 × 3; 20 for each color)

Printable columns and printing speed: *

Character pitch (characters per inch)	Printable columns	LQ printing speed (characters per second)
10	80	200
12	96	240
15	120	300
17 (10 condensed)	137	343
20 (12 condensed)	160	400

* Print speeds vary depending on system configuration, software application, resolution, and amount of page covered. Figures based on letter-size paper with color printing.

Resolution: Maximum 720 × 720 dpi

Paper feed speed: 92 milliseconds per 1/6-inch line

Input buffer: 56KB

Print direction: Bidirectional with logic seeking for text and graphics; unidirectional and autodirectional modes available in Default setting mode

Control code: ESC/P 2 and expanded raster graphics code; IBM X24/X24E emulation code

Paper feeding: Auto sheet feeder

Line spacing: 1/6-inch (default), 1/8-inch, or programmable in 1/360-inch increments

Character tables: 1 Italic and 8 graphics character tables

Character sets: 1 legal and 14 International character sets

Paper

Paper path: Sheet feeder, top entry

Feeder capacity: 100 sheets plain paper 17 lb (64 g/m^2)
70 sheets of EPSON special coated paper
30 sheets of EPSON high-quality glossy paper (with one sheet of plain paper beneath the stack)
50 transparency films (with one sheet of plain paper at bottom of stack)
10 envelopes

Paper sheets:

- Size: Letter (8.5 × 11 inches)
  A4 (210 × 297 mm)
  Legal (8.5 × 14 inches)
  Statement (8.5 × 5.5 inches)
  Executive (7.5 × 10 inches)
- Paper types: Plain paper and EPSON's special coated paper and high-quality glossy paper
- Thickness: 0.003 to 0.004 inch (0.08 to 0.11 mm)
- Paper weight: 17 to 24 lb (64 to 90 g/m^2)
  Use 24 lb (90 g/m^2) paper under normal temperature and humidity conditions.

Envelopes:

- Size: No. 10 9.5 × 4.1 inches (241 × 104 mm)
  DL 8.7 × 4.3 inches (220 × 110 mm)
- Paper types: Plain, bond, or air mail paper
- Thickness: 0.006 to 0.02 inch (0.16 to 0.52 mm)
- Paper weight: 12 to 24 lb (45 to 90 g/m^2)

Transparencies:

- Size: A4 (210 × 297 mm)
  Letter (8.5 × 11 inches)
- Thickness: 0.003 to 0.0033 inch (0.075 to 0.085 mm)

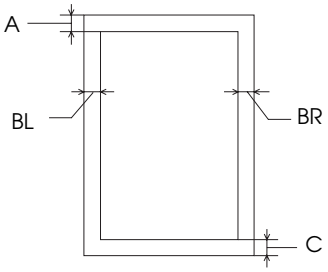
Note:
Print on special coated paper, high-quality glossy paper, envelopes, and transparencies only under these normal conditions:

Temperature *59 to 77°F (15 to 25°C)*
Humidity *0 to 60% RH*

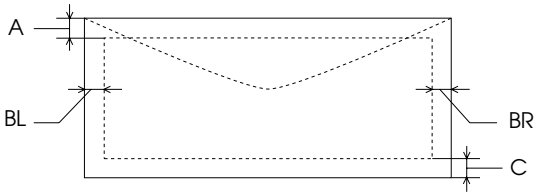
(High-quality glossy paper can be stored at 20 to 60% relative humidity.)

Printable area:

Single sheets



Envelopes



A The minimum top margin is 0.12 inch (3.0 mm).
BL The minimum left margin is 0.12 inch (3.0 mm).
BR The minimum right margin is:
- 0.12 inch (3.0 mm) for Statement and Executive paper
- 0.38 inch (9.7 mm) for Letter and Legal paper and transparencies
- 0.15 inch (3.8 mm) for A4 paper
- 0.54 inch (13.8 mm) for DL envelopes
- 1.38 inch (35.1 mm) for #10 envelopes

C The minimum bottom margin is 0.54 inch (14.0 mm).

Ink Cartridges

Black ink cartridge (S020047):

Color	Black	
Print capacity*	620 pages (A4 paper; text)	
Cartridge life*	2 years from production date and up to 6 months after opening the package at 77°F (25°C)	
Temperature	Storage:	–4 to 104°F (–20 to 40°C) 1 month at 104°F (40°C)
	Transit:	–22 to 140°F (–30 to 60°C) 1 month at 104°F (40°C) 120 hours at 140°F (60°C)
	Freezing:**	24.8°F (–4°C)
Dimensions	1.8 inches (W) × 2.3 inches (D) × 1.5 inches (H)	

Color ink cartridge (S020049):

Colors	Cyan, magenta, and yellow	
Print capacity*	320 pages (A4; 360 dpi; 5% of each color)	
Cartridge life*	2 years from production date and up to 6 months after opening the package at 77°F (25°C)	
Temperature	Storage:	–4 to 104°F (–20 to 40°C) 1 month at 104°F (40°C)
	Transit:	–22 to 140°F (–30 to 60°C) 1 month at 104°F (40°C) 120 hours at 140°F (60°C)
	Freezing:**	24.8°F (–4°C)
Dimensions	1.7 inches (W) × 2.2 inches (D) × 1.5 inches (H)	

* Ink cartridge life may vary. If you often print large graphics and dense text with little white space, you use ink faster than if you print pages with lots of white space.

** The ink thaws in approximately 3 hours at 77°F (25°C).

C ***Caution:***
- ❑ *Use only genuine EPSON ink cartridges and do not refill them. Other products may cause damage to your printer that is not covered by EPSON's warranties.*
- ❑ *Do not use an ink cartridge after the expiration date on the package.*

Mechanical

Paper feed method:	Friction with auto sheet feeder, top entry	
Total print volume:	75,000 pages (A4 paper; text)	
Dimensions and weight:	Storage	
	Width	17.0 inches (433 mm)
	Depth	9.8 inches (248 mm)
	Height	7.8 inches (198 mm)
	Weight	11.3 lb (5 kg), without ink cartridges
	Printing	
	Width	17.0 inches (433 mm)
	Depth	22.9 inches (582 mm)
	Height	11.7 inches (297 mm)
	Weight	11.3 lb (5 kg), without ink cartridges

Electrical

Input voltage range:	103.5 to 132 V
Rated frequency range:	50 to 60 Hz
Input frequency range:	49.5 to 60.5 Hz
Rated current:	0.5 A
Power consumption:	Approx. 20 W (during self test, LQ at 10 cpi)

Environmental

Temperature:	Operation	50 to 95°F (10 to 35°C)
	Storage*	4 to 140°F (20 to 60°C) 1 month at 104°F (40°C) 120 hours at 140°F (60°C)
Humidity:	Operation	20 to 80% RH
	Storage*	5 to 85% RH (without condensation)

* Stored in shipping container

Safety Approvals

Safety standards: UL 1950 with D3, CSA 22.2 950 with D3

EMC: FCC part 15 subpart B class B

Fonts

The printer comes with an installed set of fonts, which are selectable using the Default setting mode. However, the printer always uses the fonts you select with your software program. The only time you need to select the printer's installed fonts is when your software program does not allow you to select fonts.

You can select other font and pitch combinations using ESC/P 2 commands.

Bitmap fonts

Fonts	10 cpi	12 cpi	15 cpi	Proportional
EPSON Roman	√	√	√	√
EPSON Sans Serif	√	√	√	√
EPSON Courier	√	√	√	—
EPSON Prestige	√	√	√	—
EPSON Script	√	√	√	—

Scalable fonts

Fonts	Minimum point size	Maximum point size	Increments
EPSON Roman	8	32	2
EPSON Sans Serif	8	32	2
EPSON Roman T	8	32	2
EPSON Sans Serif H	8	32	2

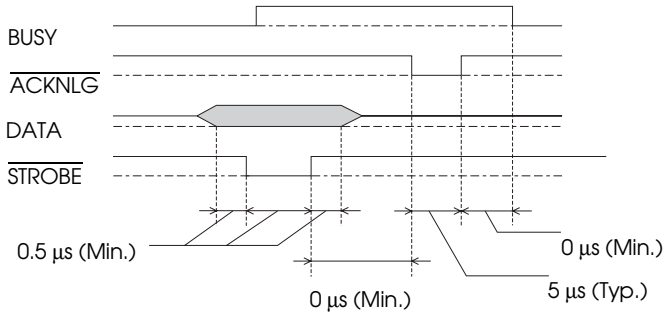
Interface Specifications

Parallel Interface

Data format:	8-bit parallel, IEEE P1284 compatible mode
Synchronization:	$\overline{\text{STROBE}}$ pulse
Handshake timing:	BUSY and $\overline{\text{ACKNLG}}$ signals
Signal level:	TTL compatible
Connector:	36-pin, Centronics compatible connector

Timing chart

The figure below shows the timing chart for the parallel interface.



Transition time (both the rise and the fall) of every signal must be less than 0.2 µs.

Serial Interface

The printer's built-in serial interface is based on the RS-422 standard so you can connect the printer to an Apple Macintosh.

Standard:	Based on RS-422
Synchronization:	Asynchronous
Bit rate:	57.6 Kbps/230.4 Kbps
Handshaking:	DTR protocol
Word format:	Data bit 8 bits Parity bit None Start bit 1 bit Stop bit 1 bit
Connector:	8-pin minicircular connector
Recommended cable:	Apple System Peripheral-8 cable (M0197)

Default Settings

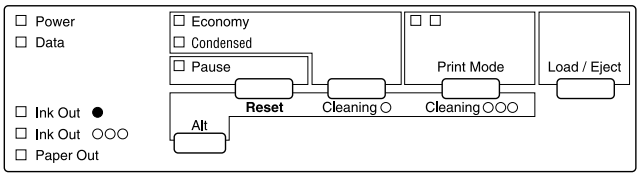
The table below shows the default settings that take effect when the printer is initialized.

Item	Default setting
Top-of-form position	Current paper position
Page length	Single sheets: 61 lines for letter-size paper 65 lines for A4-size paper
Left and right margins	Cancelled
Line spacing	1/6-inch line spacing
Character pitch	Last font selected in Default setting mode
Vertical tab position	Cleared
Horizontal tab positions	Every eight characters
Font selection	Last font selected in Default setting mode
Special printing effects	Cancelled (except condensed and economy printing)
User-defined character set	Hardware/control panel initialization: cleared Software initialization: deselected only

In addition, hardware and control panel initialization erases any text in the data buffer.

Control Panel

The printer's control panel contains lights for displaying the printer status and buttons for controlling certain functions, as described in this section.



Lights

Power
On when the printer is on.

Data
Flashes when data is being received by the printer. On when data remains in printer memory or when printing a self test or demonstration page.

Ink Out 0
Flashes when the black ink cartridge is low on ink. On when the black ink cartridge is empty or not installed. The printer will not work if the black ink cartridge is empty or not installed.

Ink Out NNN
Flashes when the color ink cartridge is low on ink. On when the color ink cartridge is empty or not installed. The printer will not work if the color ink cartridge is not installed.

If color ink runs out while you're printing, the printer stops. You can continue to print with the black ink cartridge by switching to monochrome printing. To do this, turn off the printer, turn it on again, and resend your print job.

Paper Out
On when the printer runs out of paper. Flashes rapidly if there is a paper jam.

Economy
On when economy printing mode is selected. In economy mode the printer uses less ink by printing fewer dots per character. Use this mode for rough drafts of text only.

Condensed
On when condensed mode is selected. In this mode, the printer prints selected fonts at 60% of their width so that more characters can fit on a page.

Pause
On when printing is paused and flashes when you clean the print heads or replace ink cartridges. The Pause light also flashes when an error occurs. Never turn off the printer when the Pause light is flashing.

Print Mode
See Print Mode in the next section.

Buttons

In addition to the button functions explained below, you can perform additional functions using certain button combinations and poweron sequences, as described in the next section.

Alt
Used in combination with other buttons to reset the printer, clean the print heads, or replace the ink cartridges; see the next section for more information.

Pause (or Reset)
Stops printing temporarily. Press it again to resume.

Economy/Condensed (or Cleaning 0)
Selects economy or condensed mode as indicated by the Economy and Condensed lights. Use this button only if you print from a DOS application.

Print Mode (or Cleaning NNN)
Selects the paper and ink type when using DOS. The current setting is indicated by the left and right Print Mode lights, described in the following table.

Paper type	Left light	Right light
Plain paper (true black)	Off	Off
Plain paper (composite black)	Off	On
Coated or glossy paper	On	Off
Transparency film	On	On

For most printing on plain paper, select Plain paper (true black). If the black ink on the printout is blurred, select Plain paper (composite black). Composite black is produced by mixing cyan, magenta, and yellow ink.

Load/Eject
Loads or ejects a sheet of paper. The printer normally loads and ejects paper automatically.

Button combinations and poweron functions

The button combinations below perform additional functions to control your printer.

Alt + Pause (or Reset)
Clears the printer's buffer and resets the printer settings to their factory defaults; see "Default Settings" for more information.

Alt + Economy/Condensed (or Cleaning 0)
Cleans the black print head; see "Cleaning the Print Heads" for more information.

Alt + Print Mode (or Cleaning NNN)
Cleans the color print head; see "Cleaning the Print Heads" for more information.

Load/Eject + POWER switch
Checks the paper length and performs a printer self test; see "Testing the Printer" for more information.

Load/Eject + Print Mode + POWER switch
When connected to a PC, prints a page containing a hexadecimal representation of the data sent to the printer (hex dump) for troubleshooting use. To exit hex dump mode, press the Pause button and turn off the printer.

Alt + POWER switch
Prints a demonstration page of the printer's fonts and colors. (Paper must be loaded in the printer.) To exit demonstration mode, press the Pause button and then turn off the printer.

Economy/Condensed + POWER switch
Enters the printer's Default setting mode; see the next section for more information. To exit Default setting mode, press the Pause button and turn off the printer.

Pause + POWER switch
Enters printer adjustment mode and prints a multilingual instruction sheet on calibrating the printer. (Paper must be loaded in the printer.) Use this mode only if you are printing from DOS applications. To exit printer adjustment mode, press the Pause button and turn off the printer.

Default Setting Mode

Additional printer functions are available through the Default setting mode. Because the printer's factory defaults are designed to meet the needs of almost all users, you rarely need to change the printer functions listed below. If necessary, however, you can turn on the Default setting mode and change the settings using the control panel buttons.

- **Print direction**. Specifies how the print head moves across the page. The options are Uni-D, Bi-D, and Auto (default). When Uni-D is on, the print head prints in only one direction to provide the most precise alignment for graphics and text. In Bi-D printing, the print head prints in both directions. Bi-D is faster but the vertical alignment may not be as precise as Uni-D. When Auto is selected, the printer switches automatically between Uni-D and Bi-D as necessary when it receives data.
- **Font and Pitch**. Select the built-in printer font and character pitch used as the default. Normally you use your software to select the font and pitch. The default Font and Pitch is Courier 10 cpi (characters per inch).
- **Interface mode.** Determines from which interface the printer receives print data. The default setting, Auto, allows the printer to automatically switch as needed between the parallel and serial interfaces. However, if you experience communication problems, you might want to set the interface mode to either Parallel or Serial.
- **Auto interface wait time**. Sets the time period for the printer to wait for data from the current interface (and accept no data from the other interface) when you're using the Auto interface mode. You can select a 10-second (default) or 30-second timeout.
- **Software**. Specifies the printer control language to use: EPSON ESC/P 2 (default) or IBM X24/X24E. If your software allows you to select EPSON ESC/P 2, choose it for the most advanced fonts and graphics.
- **Auto CR**. Specifies that the printer perform a carriage return and line feed operation if the print positions exceed the right margin of the paper. (Used in IBM X24/X24E mode only.)
- **AGM (Alternate Graphics Mode)**. Specifies that the printer use high-resolution, 24-pin graphics commands. (Used in IBM X24/X24E mode only.)
- **Character table**. Selects the set of characters and symbols that can be printed. The default is the Italic U.S.A. character table. If you commonly use a language containing accents, symbols, or other characters not available in the Italic U.S.A. character table, change to a different character table.
- **Auto line feed**. Specifies that a carriage return character encountered in the print file be accompanied by a line feed command. By default, auto line feed is off. If text lines print on top of one another, turn on auto line feed.
- **Network interface mode**. If you're having trouble printing when the printer is connected to multiple computers, turn on network interface mode. By default, network interface mode is off.
- **Loading position**. Determines the top margin by defining how close to the paper edge the first line can print. The loading position can be 3 mm (default) or 8.5 mm. Normally you should use your software to adjust your top margin.
- **Thick paper**. Select Index card (portrait) or Envelope (default) if you print on these media.

To turn on Default setting mode and print instructions, turn off the printer. Then hold down the Economy/Condensed button while you turn the printer back on. Follow the instructions the printer prints to change the default settings by pressing the buttons on the control panel. When you are finished, press Pause and turn off the printer to exit Default setting mode.

Removing the Protective Materials

You must remove all protective materials packed around and inside your printer before you set it up and turn on the power. Save all packaging and protective materials in case you need to transport the printer in the future. It should always be transported in its original packaging or equivalent materials.

First remove the transportation screw securing the print head to the carriage. Flip down the output tray and lift up the printer cover. Loosen the transportation screw by turning its handle counterclockwise; then lift it off the carriage. Save the screw so you can reinstall it if you transport your printer later.

Follow the directions on the Notice Sheet (packed with the printer) to remove the rest of the protective materials.

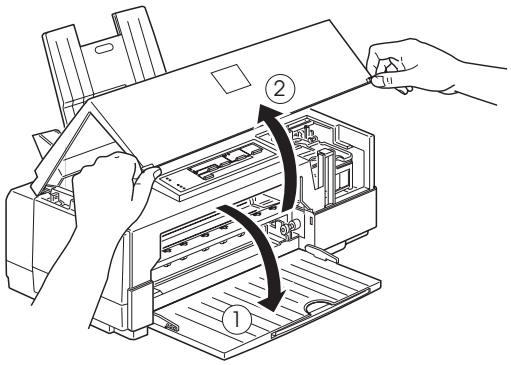
Installing the Ink Cartridges

Follow the steps in this section to install your printer's ink cartridges.

W ***Warning:***
The ink cartridges are self-contained units. Under ordinary use, ink will not leak from a cartridge. If ink gets on your hands, wash them thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water.

C ***Caution:***
Do not open the ink cartridge packages until just before you install them or they may become too dry.

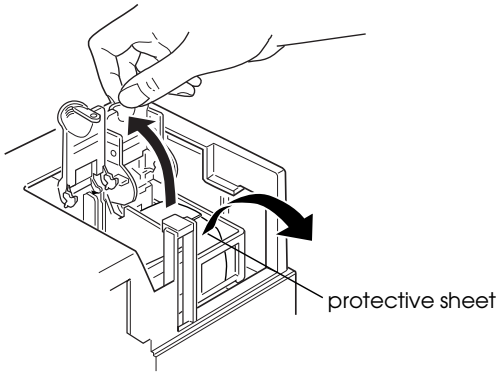
1. Make sure the printer is turned on.
2. Lower the output tray at the front of the printer. Then lift up the printer cover using the notches at both sides.



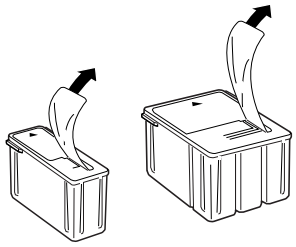
3. Hold down the Alt button for about five seconds until the print head moves slightly to the left, the ink cartridge install position. The Pause light begins flashing.

C ***Caution:***
Never move the print head by hand; always use the Alt *button to move it.*

4. Pull up each of the ink cartridge clamps to open them.

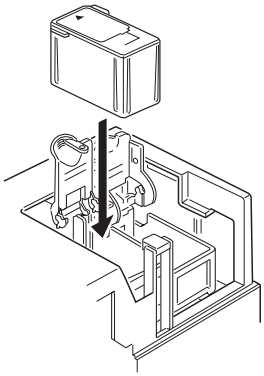


5. Remove the protective sheet from the color cartridge holder.
6. Open the foil ink cartridge packages and take out the cartridges. Remove the tape seal from the top of each one.



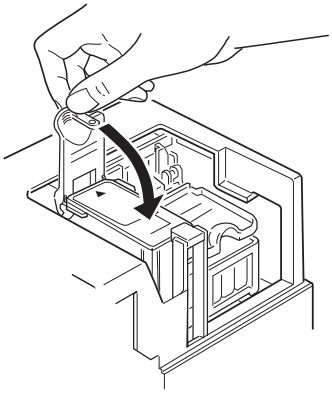
C ***Caution:***
You must remove the tape seal from the top of the cartridges; leaving the tape on will permanently damage them. Do not remove the tape seal from the bottom of the cartridge; ink will leak out.

7. The color cartridge, which is larger, goes on the right. Install the black ink cartridge on the left. Lower the cartridges into their holders with the labels facing up and the arrow on the top pointing toward the back of the printer.



Be sure to install both ink cartridges. The printer will not work if only one cartridge is installed.

8. Push down the ink cartridge clamps until they lock in place.



C ***Caution:***
Once you install the ink cartridges, do not open the clamps or remove the cartridges except to replace them with new ones. Once you remove a cartridge, do not reuse it. Reusing a cartridge that has been removed may damage the print head.

9. Press the Alt button again to return the print head to its home position. (Even if you do not press Alt, the print head moves back to its home position about 30 seconds after you close the clamps.)

   After you install the ink cartridges, the printer charges the ink delivery system. This takes about two minutes. During this time, the Pause light flashes. When the printer is finished charging, the Pause light stays on without flashing.

C ***Caution:***
Never turn off the printer when the Pause *light flashes.*

10. Close the printer cover.

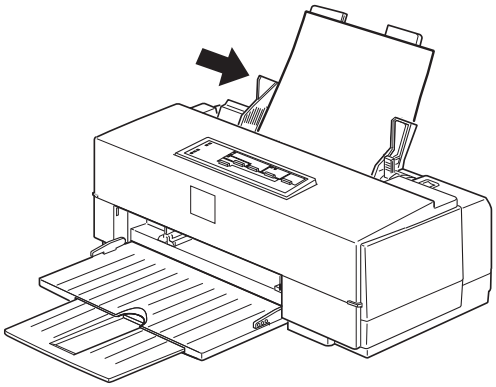
In order to maintain optimum print quality, the printer periodically performs a cleaning operation. You may notice the cleaning cycle being performed when the printer has been on for awhile without being used or when you turn it on after it has been off for awhile.

Loading Paper

You can load up to 100 sheets of plain paper. For paper specifications, see "Printer Specifications."

Always load plain paper with the printable surface facing up. The printable surface is marked with an arrow on most plain paper packaging.

1. Slide the left edge guide on the sheet feeder to the left as far as it will go.
2. Fan a stack of paper; then tap it on a flat surface to even the edges.
3. Load the stack of paper, printable side up, so that its right edge is firmly against the right side of the sheet feeder. Then slide the left edge guide against the left edge of the paper. Do not load paper above the arrow printed on the inside of the left edge guide on the sheet feeder.



Testing the Printer

Before continuing, test the printer to ensure it is functioning properly. For the self test, use paper that is at least 8.25 inches (210 mm) wide.

1. Press the POWER switch to turn off the printer.
2. While holding down the Load/Eject button, press the POWER switch to turn on the printer.

   The 360 dpi self test begins by printing in black ink on the first and last lines of the first sheet of paper to measure the page length. Then it prints character samples on the next sheet using the available fonts and colors.

3. To end the self test, press the Pause button and then turn off the printer. Otherwise, the test continues until the paper in the sheet feeder runs out.

C ***Caution:***
Do not turn off the printer before pressing the Pause *button.*

If the quality of the test output is not good, clean the print heads as described in "Printer Care." (It may take as many as five cleaning cycles to fully solve the problem.)

Calibrating the Printer

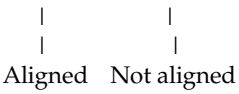
Your printer has been calibrated at the factory so that vertical lines in your text and graphics are properly aligned. If you notice misaligned images in printouts, however, you can calibrate the printer with the Bi-D Calibration Utility. You may need to do this after moving the printer to a new location, for example.

Calibrating with a PC

1. If you did not install the Bi-D Calibration Utility on your hard disk, insert the Windows printer driver diskette in your computer's diskette drive.
2. Make sure Windows Program Manager is running.
3. To open the Bi-D Calibration Utility, choose Run from the File menu. The Run dialog box appears.
4. In the Command Line box, type the disk and directory for the utility (A:CALIBRAT or C:*directory*\CALIBRAT if on your hard disk). Then press Enter.
5. When you see the Calibration Utility screen, make sure Stylus COLOR II is selected as the printer. If it isn't, use ↑ or ↓ to select it.

   Also make sure Print calibration pattern is selected at the bottom of the screen. (Use the Tab key to move down, if necessary.)
6. Press Enter to start calibrating.
7. The next screen prompts you to align the black and color heads. Press Enter to choose Yes. (To align only the black print head, press Tab to select No.)

   Wait for 1 minute while the printer prints a page of multiple patterns of vertical lines, each of which is assigned an offset value. In most patterns, the vertical lines are slightly misaligned. Look for the pattern that is most closely aligned.

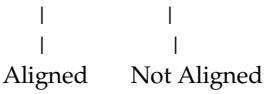
   

   Aligned Not aligned
8. Enter the offset value of the pattern that is most closely aligned. The printer prints another sheet in black only to verify that the alignment is correct.
9. If the vertical lines are aligned, press Enter to select Done. If the lines are not aligned, press Tab to move to Re-Calibrate; then press Enter to repeat the calibration.

Calibrating with a Macintosh

1. Open the StylusCOLOR II folder and double-click Bi-D Calibration Utility.
2. You see a prompt asking you to choose the interface type. Click Serial.
3. You see the Bi-D Calibration Utility screen. First specify whether you connected the printer to the modem or printer port by clicking the appropriate icon.
4. Click the Pattern 1 button to align the print heads using the first pattern page.

   Wait for about two minutes while the printer prints a page containing multiple patterns of vertical lines, each assigned with an offset value. In most patterns, the vertical lines are slightly misaligned. Look for the pattern that is most closely aligned.

   Aligned Not Aligned
5. Enter the offset value of the pattern that is most closely aligned in the No. box and click OK. The printer prints a confirmation page.
6. Repeat steps 4 and 5, selecting the Pattern 2 through Pattern 5 buttons and entering the offset value of the pattern that is most closely aligned on each pattern page.
7. When you finish, click Quit.

Loading Special Paper

To ensure the best results, EPSON provides special papers and transparencies that are formulated for the inks used in EPSON ink jet printers.

To order EPSON papers and transparencies, contact your dealer or call EPSON Accessories at (800) 873-7766 (U.S. only). In Canada, call (800) BUY-EPSON for sales locations.

Use the following part numbers when ordering:

Paper or other media	Size	Part number
Special coated paper for 720 dpi	Letter (8.5 × 11 inches) Legal (8.5 × 14 inches)	S041062 S041067
Special coated paper for 360 dpi	Letter (8.5 × 11 inches)	S041060
High-quality glossy paper	Letter (8.5 ×11 inches)	S041072
Transparency film	Letter (8.5 ×11 inches)	S041064

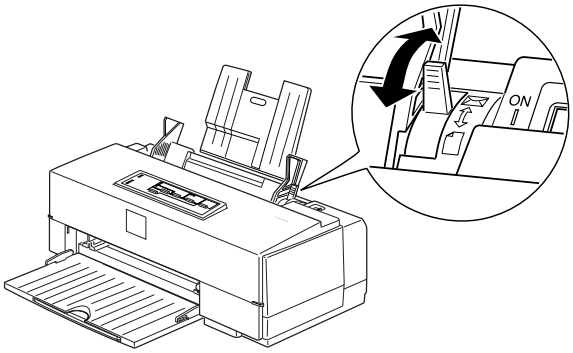
Setting the Paper Thickness and Adjustment Levers

Before you start printing, you should check the paper thickness and adjustment levers to make sure they are set correctly for the type of paper or other media you are loading.

C ***Caution:***
Before you change the lever settings, make sure there is no paper in the paper path and that printing is paused. To do this, press the Pause *button or turn off the printer.*

The paper thickness lever on the right side of the sheet feeder has two settings: plain paper and thick paper. Set the lever to the position that best suits the paper or other media you plan to use, as shown in the following table and illustration.

Paper type	Paper thickness lever position
Standard paper	Plain paper
Transparency film	Plain paper
Envelopes	Thick paper

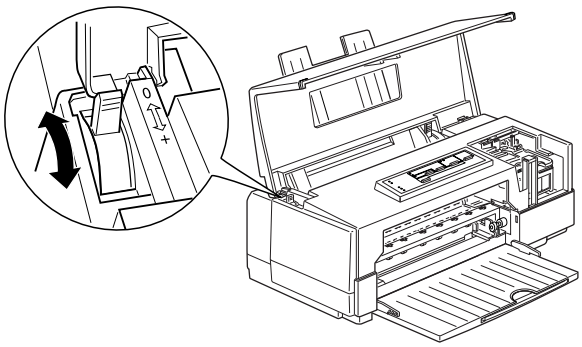


Use the table below to set the thickness adjustment lever for your media type.

Paper type	Thickness adjustment lever position
Standard paper	0
Transparency film	0
Envelopes	+
Previously smeared documents	+

If a document is smeared, set the thickness adjustment lever to the + position (regardless of the paper type) and print it again.

To access the lever, open the printer cover; the lever is in the left back corner, as shown in the following illustration.



When using special coated paper, glossy paper, transparencies, or envelopes, keep the following in mind:

- ❏ Use special coated paper and glossy paper within one year of purchase. Use transparencies within six months.
- ❏ Do not touch the printable surface of the paper; hold the sheets by their edges. The moisture and oils on your hands can reduce print quality.
- ❏ After printing on high-quality glossy paper or transparencies, remove each sheet from the output tray immediately. Make sure each sheet is dry before stacking.
- ❏ Return unused sheets and envelopes to their original package as soon as possible after you finish printing. Unfavorable storage conditions—especially high temperature, humidity, and direct sunlight—can damage the media.
- ❏ Follow any other special loading procedures included in the rest of this section.

Loading Special Papers and Transparencies

You can load up to the following number of sheets in the sheet feeder:

- ❏ 70 sheets of special coated paper

Note:
If you load legal-size special coated paper for 720 dpi, do not load it more than halfway to the arrow on the left edge guide.

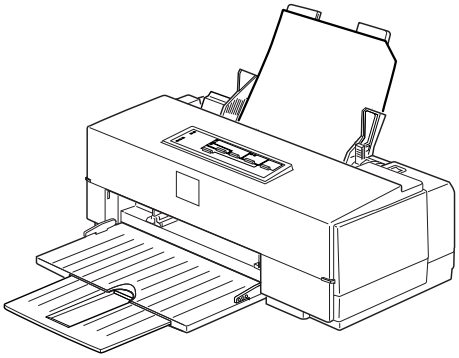
- ❏ 50 sheets of transparency film with one sheet of plain paper beneath the last transparency in the stack
- ❏ 30 sheets of high-quality glossy paper with a sheet of plain paper beneath the last sheet in the stack.

Note:
To avoid printing on the plain paper, print one page at a time.

Follow these steps to load special paper or transparency film:

1. Lower the output tray at the front of the printer and slide out the extension.
2. Slide the left edge guide on the sheet feeder to the left as far as it will go.
3. Prepare the paper or transparency film as described above.
4. If you are loading a stack of paper or transparencies, fan the stack and then tap it on a flat surface to even the edges.

5. Before you load paper, make sure the printable surface faces up. For coated papers, the printable side is whiter than the other side. For glossy paper and transparencies, the printable side is face up when the cut corner is positioned as shown in the illustration below.

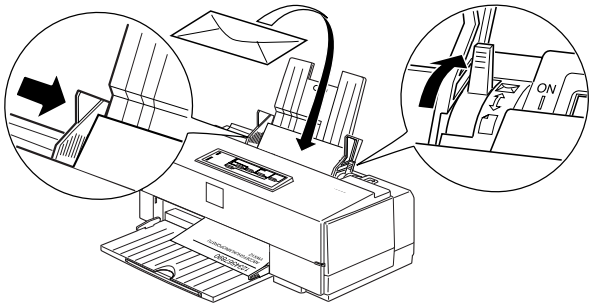


6. Change the printer driver settings so they are appropriate for the paper or transparency film you loaded.

Loading Envelopes

For detailed specifications on the thickness and weight of the envelopes you can load, see "Printer Specifications." Do not use envelopes that are curled or folded, or ones that are too thin; they may curl during printing. Also, do not choose 720 dpi resolution for envelope printing.

1. Make sure you set the paper thickness and thickness adjustment levers to the correct positions for envelope printing, as described above.
2. You can load up to 10 envelopes in the sheet feeder with the printable side facing up as shown.



3. Adjust the left edge guide so the envelopes feed straight into the paper path.
4. Change the printer driver settings so they are appropriate for the envelopes you loaded.

Paper Handling Problems

This section describes how to prevent paper jams and ensure that paper feeds properly.

Paper jam problems

If paper jams inside the printer frequently, try the following:

- ❏ Use a higher quality paper that is suitable for ink jet printers and is not too thin, too thick, or rough. For best quality, use EPSON special coated and high-quality glossy papers. See "Printer Specifications" for paper specifications.
- ❏ Fan the stack of paper before you load it.
- ❏ If you loaded plain paper, try turning the stack over. The printable side may have been facing down.
- ❏ Do not load too many sheets in the sheet feeder. You can load up to 100 sheets of plain paper, 70 sheets of special coated paper, 10 envelopes, 50 sheets of transparency film (with one sheet of plain paper beneath the stack), or 30 sheets of high-quality glossy paper (with one sheet of plain paper beneath the stack).

Paper feeding problems

If paper does not feed properly, the most likely causes are:

- ❏ Paper is curled or folded. Use flat, undamaged paper.
- ❏ The paper is of poor quality; use a better quality paper.
- ❏ The paper is too thin or thick; see "Printer Specifications" for paper size and type specifications.
- ❏ The paper was exposed to excess humidity, over 60%. See "Printer Specifications" for the required environmental conditions.
- ❏ The left edge guide is too tight or too loose; adjust it for the size of the paper.
- ❏ Too many sheets are loaded in the sheet feeder. You can load up to 100 sheets of plain paper, 70 sheets of special coated paper, 10 envelopes, 50 sheets of transparency film (with one sheet of plain paper beneath the stack), or 30 sheets of high-quality glossy paper (with one sheet of plain paper beneath the stack).

Printer Care

Cleaning the Print Heads

The printer periodically cleans its print heads automatically, so normally you should not need to manually activate a cleaning cycle. However, if print quality diminishes, you can run a cleaning cycle to enable the nozzles to deliver ink properly.

You can clean one or both print heads. Each cleaning cycle takes about one minute. During the cleaning cycle, the carriage moves and you can hear the printer recharging the print heads. The Pause light flashes throughout the cleaning cycle and then stays on when the cycle is finished.

To clean the color print head:

1. Make sure the printer is turned on and press the Pause button.
2. Hold down the Alt button and press Print Mode. The cleaning cycle begins.
3. Press the Pause button to resume printing.

To clean the black print head:

1. Make sure the printer is turned on and press the Pause button.
2. Hold down the Alt button and press Economy/Condensed. The cleaning cycle begins.
3. Press the Pause button to resume printing.

It can sometimes take up to five cleaning cycles to improve print quality.

Replacing Ink Cartridges

The printer's Ink Out 0 (black) and Ink Out NNN (color) lights tell you when your ink cartridges are low on ink and when you need to replace them. If one of these lights flashes, the indicated cartridge is low on ink; if it remains on, you need to replace the cartridge.

C ***Caution:***

- ❏ *Do not replace an ink cartridge unless its* Ink Out *light tells you to. If you replace a cartridge before its light flashes, the sensor that tells you when ink is out will not work properly with the new cartridge.*
- ❏ *Leave the old cartridge installed in the printer until you are ready to replace it with a new one. Attempting to print without a cartridge installed can damage the printer.*
- ❏ *If you replace a cartridge when the* Data *light is on, you must turn off your printer and then turn it back on. This erases the data received by the printer and you must resend your print job.*

Once you install the ink cartridges, do not open the clamps or remove the cartridges except to replace them with new ones. Once you remove a cartridge, you cannot reuse it.

When the color ink cartridge is empty, you can continue printing with the black ink cartridge by switching to monochrome mode. To do this, turn off the printer, then turn it back on and resend your print job. If the black ink cartridge is empty, you cannot continue printing, even if the color cartridge still contains ink.

Selecting the Correct Ink Cartridges

Use only these EPSON ink cartridges:

Black ink cartridge	S020047
Color ink cartridge	S020049

C ***Caution:***
Use only genuine EPSON ink cartridges and do not refill them. Other products may cause damage to your printer that is not covered by EPSON's warranties.

Removing and Installing Ink Cartridges

Follow these steps to replace either or both ink cartridges:

1. Make sure the printer is on.
2. Press the Pause button (the Pause light comes on).
3. Lower the output tray on the front of the printer and then lift up the printer's cover by the notches on its sides.
4. Hold down the Alt button for about five seconds until the print head moves slightly left to the ink cartridge install position. The Pause light begins blinking. (The carriage returns to the home position after 30 seconds if the ink cartridges are not removed.)
5. Pull up the cartridge clamp to open it. The cartridge rises partially out of the printer.
6. Lift the cartridge out of the printer and dispose of it carefully so any excess ink does not spill out. Do not take the used cartridge apart or try to refill it.
7. Open the package containing the ink cartridge and remove the cartridge from its foil wrapper. Remove the tape seal from the top of the cartridge.

   C ***Caution:***
   You must remove the tape seal from the top of the cartridge; leaving the tape on will permanently damage it. Do not remove the tape seal from the bottom of the cartridge; ink will leak out.

8. Lower the ink cartridge into its holder with the label facing up and the arrow pointing to the back of the printer.
9. Push down the ink cartridge clamp until it locks in place.
10. Press the Alt button again. The Pause light flashes as the printer charges the ink delivery system.
11. Close the printer cover. When the charging cycle finishes, the Pause light stops flashing and stays on. Press the Pause button to turn off the light and resume printing.

Cleaning the Printer

1. Turn off the printer and disconnect any cables connected to it. Be sure to keep the printer cover closed as you clean it.
2. Remove any paper or other media from the sheet feeder.

3. Carefully clean away loose dust and dirt with a soft brush.
4. Clean the exterior with a soft cloth dampened in mild soap.
5. To clean ink out of the printer's interior, wipe it gently with a damp cloth.

C ***Caution:***
- ❏ *Never use alcohol or thinner to clean the printer; these chemicals can damage the components and the printer case.*
- ❏ *Do not use a hard or abrasive brush; these can scratch the printer surfaces.*
- ❏ *Do not allow water to get on the printer mechanism or any electronic components.*
- ❏ *Do not touch the gears inside the printer.*
- ❏ *Do not spray inside the printer with lubricants or oils; they can damage the printer mechanisms.*

Information Reference List

Engineering Change Notices

None

Product Support Bulletins

None

Technical Information Bulletins

None

Related Documentation

TM-STYCLRII	EPSON Stylus COLOR II Service Manual
PL-STYCLRII	EPSON Stylus COLOR II Parts Price List
4004908	EPSON Stylus COLOR II Reference Guide
4004910	EPSON Stylus COLOR II Setup and Software Guide for Windows
4004909	EPSON Stylus COLOR II Setup and Software Guide for Macintosh